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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listings of the Claims:

Please amend the subject application as follows:

1-155. (Canceled)

156-158. (Canceled)

159. (Canceled)

160-183. (Canceled)

- (New) An isolated nucleic acid encoding a chimeric G 184. protein, wherein the chimeric G protein comprises an Caenorhabditis elegans $G\alpha q$ G protein from which five contiguous amino acids beginning with the C-terminal amino acid have been deleted and replaced by contiquous amino acids present in a human G protein beginning with the C-terminal amino acid of such human G protein; provided that upon activation the chimeric G protein produces a $G\alpha q$ second messenger response and wherein the $G\alpha q$ second messenger response comprises of intracellular calcium or calcium release mobilization.
- 185. (New) The nucleic acid of claim 184, wherein the human G protein is a human $G\alpha z$ G protein or a human $G\alpha i3$ G protein.

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- 186. (New) The nucleic acid of claim 184, wherein the chimeric G protein has the amino acid sequence of SEQ ID NO: 1 or SEQ ID NO: 5.
- (New) An isolated nucleic acid encoding a chimeric G 187. protein, wherein the chimeric G protein comprises an Caenorhabditis elegans Gog G protein from which nine contiquous amino acids beginning with the C-terminal amino acid have been deleted and replaced by nine contiquous amino acids present in a human G protein beginning with the C-terminal amino acid of such human G protein; provided that upon activation the chimeric G protein produces a $G\alpha q$ second messenger response and wherein the Gaq second messenger response comprises release of intracellular calcium or calcium mobilization.
- 188. (New) The nucleic acid of claim 187, wherein the human G protein is a human G α z G protein or a human G α s G protein.
- 189. (New) The nucleic acid of claim 187, wherein the chimeric G protein has the amino acid sequence of SEQ ID NO: 2 or SEQ ID NO: 3.
- 190. (New) An isolated nucleic acid encoding a chimeric G protein, wherein the chimeric G protein has the amino acid sequence of SEQ ID NO: 4 or SEQ ID NO: 41.